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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A transmission system comprising: ~~at least~~

a transmitter,

a transmission network having a time varying state, and

a receiver,

wherein:

~~said~~ the transmitter ~~comprising~~ includes an encoder for generating redundancy packets ~~(R(i))~~ from media packets ~~(M(i))~~ so as to provide an error correction capability ~~of a certain number of packets (Q(k))~~ at ~~said~~ the receiver, ~~said~~ the correction capability depending on the amount of redundancy ~~(n-k)~~ generated by ~~said~~ the encoder,

~~said~~ the receiver ~~comprising~~ includes an analyser ~~for analysing the~~ that is configured to analyze packet errors occurring on the transmission network, and ~~for computing~~ determine an optimal amount of redundancy that ~~gives~~ provides an error correction capability allowing to respect a maximum tolerated packet error rate ~~(PER$_{MAX}$)~~, ~~said~~ and is configured to communicate the optimal amount of redundancy ~~being fed back~~ to ~~said~~ the transmitter ~~so as to be used~~ for use by ~~said~~ the encoder.

2. (Currently amended) ~~A~~ The transmission system ~~as claimed in~~ of claim 1, wherein ~~said~~ the transmitter ~~comprises~~ includes a media source for delivering ~~said~~ the media packets with an adaptable media bitrate, and ~~said~~ the encoder is designed to ~~send to said media source an order for adapting said~~ control the media bitrate depending on the amount of redundancy currently added by the encoder.

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3. (Currently amended) ~~A~~ The transmission system ~~as claimed in~~ of claim 1, wherein ~~$(n-k)$ redundancy packets are generated from k media packets so as to form a transmission block of n packets, and said~~ the analyser is designed to:

a) keep a history of ~~the~~ number$\underline{s}$ ~~B_i~~ of packet errors in a plurality of transmission block$\underline{s}$,

b) and for different numbers of possible redundancy packets in each transmission block ~~values of k~~:

[[-]]   calculate a mean value ~~$C(k)$~~ of ~~the~~ number$\underline{s}$ ~~$C_i(k)$~~ of packet errors in ~~a~~ the plurality of transmission block$\underline{s}$ after correction with an error correction capability corresponding to the number of possible redundancy packets ~~of $Q(k)$~~,

[[-]]   calculate ~~the~~ a corresponding packet error rate based on the mean value ~~$(C(k)/n)$~~,

[[-]]   compare the corresponding packet error rate with ~~said~~ the maximum tolerated packet error rate ~~(PER_{MAX})~~ for selecting ~~said~~ the optimal ~~value of k~~ amount of redundancy.

4. (Currently amended) A receiver for receiving media packets and redundancy packets transmitted by a transmitter via a transmission network having a time-varying state, ~~said~~ the redundancy packets being generated from ~~said~~ the media packets so as to provide an error correction capability of a certain number of packets at ~~said~~ the receiver~~, said correction capability depending on the amount of redundancy generated at the transmitter~~, ~~said~~ the receiver comprising:

[[-]]   an analyser for analysing ~~the~~ packet errors occurring on the transmission network and for ~~computing~~ determining an optimal amount of redundancy that ~~gives~~ provides an error correction capability allowing to respect a maximum tolerated packet error rate ~~(PER_{MAX})~~, and

[[-]]   a feedback ~~means for feeding~~ device that is configured to feed back ~~said~~ the optimal amount of redundancy to ~~said~~ the transmitter.

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5. (Currently amended) A~The~receiver ~as claimed in~ of claim 4, ~intended to receive transmission blocks of n packets comprising k media packets and (n-k) redundancy packets generated from said k media packets,~ wherein ~said~ the analyser is designed to:

a) keep a history of the number B_i of packet errors in a plurality of transmission block$\underline{s}$,

b) and for different numbers of possible redundancy packets ~values of k~:

[[-]] calculate a mean value ~C(k)~ of ~the~ number$\underline{s}$ ~$C_i(k)$~ of packet errors in a~the~ plurality of transmission block$\underline{s}$ after correction with an error correction capability based on the number of possible redundancy packets ~of Q(k)~,

[[-]] calculate ~the~a~ corresponding packet error rate ~(C(k)/n)~,

[[-]] compare the corresponding packet error rate with ~said~ the maximum tolerated packet error rate ~(PER_{MAX})~ for selecting ~said~ the optimal amount of redundancy ~value of k~.

6. (Currently amended) A~The~receiver ~as claimed in~ of claim 4, wherein the received media packets ~an~are~ intended to be used by an application, and ~said~ the maximum tolerated packet error rate is set by ~said~ the application.

7. (Currently amended) A transmitter for transmitting packets to a receiver via a transmission network having a time varying state, ~said~ the transmitter comprising:

an encoder for generating redundancy packets from media packets so as to provide an error correction capability of a certain number of packets at the receiver, ~said~ the correction capability depending on ~the~an~ amount of redundancy generated by ~said~ the encoder, and ~said~

the encoder being designed to set ~said~ the amount of redundancy to an optimal value that gives an error correction capability allowing to respect a maximum tolerated packet error rate defined at the receiver, ~said~ the optimal value being fed back to ~said~ the transmitter by ~said~ the receiver based on prior transmissions from the transmitter.

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8. (Currently amended) A ~~The~~ transmitter ~~as claimed in~~ of claim 7, ~~comprising~~
including a media source for delivering ~~said~~ the media packets with an adaptable
media bitrate, wherein ~~said~~ the encoder is designed to ~~send to said media source an~~
~~order for adapting said~~ control the adaptable media bitrate depending on the amount
of redundancy ~~currently~~ ~~added~~ generated by the encoder.

9. (Currently amended) A method for determining an amount of redundancy to be
used in a forward error correction scheme in which redundancy packets are
generated from media packets at a transmitter ~~side~~ so as to provide a correction
capability of a certain number of packets at a receiver ~~side~~, ~~said~~ the method
comprising ~~the steps of~~:

[[-]]   analysing ~~the~~ packet errors occurring on the transmission network, at the
receiver ~~side~~,

[[-]]   ~~computing~~ determining an optimal amount of redundancy that ~~gives~~ provides
an error correction capability allowing to respect a maximum tolerated packet error
rate, at the receiver ~~side~~,

[[-]]   ~~feeding back said~~ communicating the optimal amount of redundancy from the
receiver to the transmitter.

10. (Currently amended) A program comprising instructions for implementing ~~a~~ the
method ~~as claimed in~~ of claim 9 when ~~said~~ the program is executed by a processor.